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Pat. No. 05964824 - 6 Group ID: Issue Date: 06/14/04 User ID: Smelcher CHECK LIST Rule 47 Continuing Data Disclaimer PCT Yes No No No Microfiche Appendix CPA tag No No Foreign Priority Claimed: No Acknowledged: No State Code: CA Country Code: Text Endorsement: 09663002!091 **JACKET** SUBCLASS FILING DATE CLASS GAU SERIAL NUMBER 09/15/00 704 230 2655 FOREIGN PRIORITY Document Number Date DISCLAIMER TITLE System for speech encoding having an adaptive encoding MICROFICHE APPENDIX ASSISTANT EXAMINER: Middle: Last: First: Opsasnick N. Michael PRIMARY EXAMINER:

Middle:

Last:

CLAIMS ALLOWED

First:

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Total Print DRAWINGS Sheets Print Figures BLUE SLIP INFORMATION SERIAL NUMBER SUBCLASS GAU CLASS 2655 09/663/,002 INDEP. CLAIMS 1, 13, 23, 33, 36, 39, 40, 42, 43, 44, 46, 47, 49, 50, 52, 53, 54, 56 BLUE SLIP (Page 1) INTERNATIONAL CLASSIFICATION SubClass G10L 19/00 CROSS-REFERENCES Class SubClass 704 223 TERM EXTENSION 728 FIELD OF SEARCH Class SubClass 230;219;223:207

Pat. No. 05964824 - 6

Issue Date: 06/14/04

Group ID: A

User ID: Smelcher

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Pat. No. 05964824 - 6

Issue Date: 06/14/04

Group ID: A

User ID: Smelcher

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INVENTOR NAME Last: Huan-Yu San Clemente City: ZIP Code: Foreign ZIP: State: CA Country: INVENTOR NAME Signed: Middle: First: Last: Yes Gao Yang City: Mission Viejo State: CA Country: Foreign ZIP: PCT INFO CONTINUING DATA (Page 1) SERIAL NUMBER FILING DATE STATUS DOCUMENT NO. ISSUE DATE LINE 09/154,660/ 09/18/1998 01 08/24/1998 105 *[*60/097,569 REFERENCES (Page 1) SERIAL NUMBER: 09/663,002 FORM 892 U.S. REFERENCES SubClass Patentee U.S. Pat No. Date 05/2001 Gersho et al. No issue date available. FOREIGN REFERENCES Date Country Class Foreign Doc No. OTHER REFERENCE CITATIONS (incl. Author, Title, Date,

Pat. No. 05964824 - 6

Issue Date: 06/14/04

Group ID: A

User ID: Smelcher

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REFERENCES (Page	2) SERI	AL NUMBER: 09/663,002		4160分割。1500時候關鍵於 5.1155
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U.S. REFERENCES				
U.S. Pat No.	Date	Patentee	<u>Class</u>	SubClass
*6,330,533		Su et al.	704	220
No issue date av	ailable.			
*6,104,992	08/2000	Gao et al.	704	220
No issue date av	ailable.		<del></del>	·
*6,636,829	10/2003	Benyassine et al.	704	201
No issue date av	ailable.			and the second s
5,596,676	01/1997	Swaminathan et al.	704	208
*6,260,010	07/2001	Gao et al	704	230
No issue date av				
*6,173,257	01/2001	Gao	704	220
No issue date av		dao		220
*6,188,980	02/2001	Thyssen	<del>704</del>	_230
No issue date av		In post in the second s	The state of the s	Was Was
5,960,389	09/1999	Jarvinen et al.	704	220
5,778,338	07/1998	Jacobs et al.	704	223
			A STATE OF THE STA	
FOREIGN REFERENC Foreign Doc No.	<u>ES</u> Date	Country Class SubCla	.ss	The state of the s
	-			
OTHER REFERENCE	CITATION	S (incl. Author, Title, Date,	*	を Marin Marin Company in Compan
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REFERENCES (Page	3) SERI	AL NUMBER: 09/663/,002	1 44.	
FORM 1449				
U.S. REFERENCES			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
U.S. Pat No.	<u>Date</u>	<u>Patentee</u>	Class	SubClass
FOREIGN REFERENC	ES			

Country

Gerhard Schroeder, [37 International Telecommunication Union

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages,

Date

Foreign Doc No.

<u>Class</u>

SubClass

Group ID: A User ID: Smelcher

Telecommunications Standardization Sector, [38 [0 Jun. 1995, pp. i-iv,

[37 Digital Cellular Telecommunications System; Comfort Noise Aspects for Enhanced Full Rate (EFR) Speech Traffic Channels (GSM 06.62), [38]
[0 May 1996, pp. 1-16.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,

Elsevier Science B.V.; Kroon and W.B. Kleijn (Authors), Chapter 3: [37]

Linear-Prediction Based on Analysis-by-Synthesis Coding, [38] [8] 1995,

DD. 81-113.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,

Elsevier Science B.V.; A. Das, E. Paskoy and A. Gersho (Authors),

Chapter 7: [37 Multimode and Variable-Rate Coding of Speech, [38 [0 1995, pp. 257-288.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Speech and Audio Coding for Wireless and Network Applications, Kluwer Academic Publishers; T. Taniguchi, Y. Tanaka and Y. Ohta (Authors), Chapter 27:

[37 Structured Stochastic Codebook and Codebook Adaptation for CELP, [38 [0 1993, pp. 217-224.]

W. Bastiaan Kleijn and Peter Kroon, The RCELP Speech-Coding Algorithm, vol. 5, No. 5, Sept.-Oct. 1994, pp. 39/573-47/581.

C. Laflamme, J-P. Adoul, H.Y. Su, and S. Morissette, On Reducing

Computational Complexity of Codebook Search in CELP Coder Through the

Use of Algebraic Codes, 1990, pp. 177-180.

Group ID: A User ID: Smelcher

Chih-Chung Kuo, Fu-rong Jean, and Hsiao-Chuan Wang, Speech.

Classification Embedded in Adaptive Codebook Search for Low Bit-Rate

CELP Coding, IEEE Transactions on Speech and Audio Processing, vol. 3,

No. 1, Jan. 1995, pp. 1-5.

Erdal Paksoy, Alan McCree, and Vish Viswanathan, A Variable-Rate

Multimodal Speech Coder with Gain-Matched Analysis-By-Synthesis, 1997,

pp. 751-754.

Gerhard Schroeder, International Telecommunication Union

Telecommunications Standardization Sector, Jun. 1995, pp. i-iv., 1-42.

Digital Cellular Telecommunications System; Comfort Noise Aspects for

Enhanced Full Rate (EFR) Speech Traffic Channels (GSM 06.62), May

1996, pp. 1-16.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,

Elsevier Science B.V.; Kroon and W.B. Kleijn (Authors), Chapter 3,

Linear-Prediction Based on Analysis-by-Synthesis Coding, 1995, pp.

81-113.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis, Elsevier Science B.V.; A. Das, E. Paskoy and A. Gersho (Authors), Chapter 7, Multimode and Variable-Rate Coding of Speech, 1995, pp. 257-288.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Speech and Audio Coding for Wireless and Network Applications, Kluwer Academic

Group ID: A

User ID: Smelcher

Page

Publishers; T. Taniguchi, Y. Tanaka and Y. Ohta (Authors), Chapter 27, Structured Stochastic Codebook Adaptation for CELP, 1993, pp. 217-224.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Advances in Speech Coding, Kluwer Academic Publishers; I.A. Gerson and M.A. Jasiuk (Authors), Chapter 7, Vector Sum Excited Linear Prediction (VSELP), pp. 69-79.

REFERENCES (Page 4) SERIAL NUMBER: 09/663,002

FORM 1449

U.S. REFERENCES

U.S. Pat No. Date Patentee

Class

SubClass

FOREIGN REFERENCES

Foreign Doc No. Date Country Class SubClass

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Advances in Speech

Coding, Kluwer Academic Publishers; J.P. Campbell, Jr., T.E. Tremain,

and V.C. Welch (Authors), Chapter 12, The DOD 4.8 KBPS Standard

(Proposed Federal Standard 1016), 1999, pp. 121-133.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Advances in Speech Coding, Kluwer Academic Publishers; R.A. Salami (Author), Chapter 14, Binary Pulse Excitation: A Novel Approach to Low Complexity CELP Coding, 1991, pp. 145-157.

REFERENCES (Page 5) SERIAL NUMBER: 09/663,002 FORM 1449

U.S. REFERENCES

U.S. Pat No. Date Patentee

lass SubC

Pat. No. 05964824 - 6

Issue Date: 06/14/04

Group ID: A.

User ID: Smelcher

11/1990 Chen et al. 4,969,192 08/1997 Jacobs et al. 5,657,420 704 219 03/1998 <u>Moriya</u> 5,732,188 <u>03/1998</u> Kroon et al. 704 223 5,732,389 <2,9>5,778,338 07/1998 Jacobs\_et al. 220 704 12/1999 Funaki 6,006,177 04/2000 Yamaura et al 704 222 \*6,052,661 No issue date available. 704 262 \*6,067,518 05/2000 Morii No issue date available. 704 **\***6,<u>0</u>73,092 06/2000 Kwon No issue date available. FOREIGN REFERENCES Country Class SubClass Foreign Doc No. Date OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.) Lawrence R. Rabiner and Ronald W. Schafer, Digital Processing Of Speech Signals, pp. 1-37 and 396-461. W. Bastiaan Kleijn and Peter Kroon, [37 The RCELP Speech-Coding Algorithm, [38 [0 vol. 5, No. 5, Sept.-Oct. 1994, C. Laflamme, J-P. Adoul, H.Y. Su, and S. Morissette, [37 On Reducing Computational Complexity of Codebook Search in CELP Coder Through the

Chih-Chung Kuo, Fu-Rong Jean, and Hsiao-Chuan Wang, [37 Speech Classification Embedded in Adaptive Codebook Search for Low Bit-Rate CELP Coding, [38 [0 IEEE Transactions on Speech and Audio Processing, vol. 3, No. 1, Jan. 1995, pp. 1-5.

Use of Alge<u>braic</u> Codes,[38 [0\_1990, pp. 1<u>77-180</u>

Group ID: A User ID: Smelcher

Page 9

Erdal Paksoy, Alan McCree, and Vish Viswanathan, [37 A Variable-Rate Multimodal Speech Coder with Gain-Matched Analysis-By-Synthesis, [38 [0 1997, pp. 751-754.

REFERENCES (Page 6) SERIAL NUMBER: 09/663,002

U.S. REFERENCES

U.S. Pat No. Date Patentee

<u>Class SubClass</u>

FOREIGN REFERENCES

Foreign Doc No. Date Country Class SubClass

92/22891 12/199<u>2 WOX</u>

95/28824 11/1995 WOX

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Kazunori Ozawa and Taskashi Araseki, [37 [i Multipulse Excited Speech

Coding Utilizing Pitch Information at Rates Between 9.6 and 4.8

kbits/s[l [38 , Systems and Computers in Japan, vol. 21 No. 13, 1990.

S. Ghaemmaghami and M. Deriche, [37 [i A New Approach to Efficient Interpolative Determination of Pitch Contour Using Temporal Decomposition[1 [38, IEEE Proceedings of Digital Processing Application, 1996, pp. 125-130.

Roch Lefebvre and Claude LaFlamme, [37 [i Shaping Coding Noise With Frequency-Domain Companding[l [38 , IEEE publication, 1997, pp 61262.

W. Bastiaan Klejian, Ravi P. Ramachandran and Peter Kroon, [37 [i Generalized Analysis-By-Synthesis Coding and Its Application To Pitch Prediction[l [38 , IEEE, 1992, pp 1-337[13 1-340.

Group ID: A User ID: Smelcher

W. Bastiaan Klejian, Ravi P. Ramachandran and Reter Kroon, Interpolation of the Pitch-Predictor Parameters in Analysis-by-Synthesis Speech Coders[1 [38 , IEEE Transactions on Speech and Audio Processing, vol. 2, No. 1, Part 1, 1994, pp 42-54.